BENGALURU METROPITIAN TRANSPORT CORPORATION
CENTRAL OFFICES, BANGALORE
Mechanical Eng Dept.

No.BMTC/CO/ME/ 718 /2025-26 DATE: 24 .06.2025

Technical Specification for Liquid Urea AUS-32/ Ad blue

Product information on – AUS 32

Chemically AUS32 is an aqueous solution of 32.5% by weight of urea.

1. General data related to AUS 32:

Chemical composition:urea in water
CAS-Number(urea): 57-13-6 (CAS: Chemical Abstracts Service)
EINECS-Number(urea):"200-315-5
COMMON SYNONYMES(urea):Carbamide,Carbonyldiamide,Carbon acid Diamid

2. Physical characteristics of AUS32:

Solubility of AUS32 in water: unlimited
Appearance:clear and colorless
Smeil: noor slightly like ammonia
Crystallization point: - 11.5 °C
Viscosity (at25°C):ca.1.4mPa s
Heat conductivity(at 25 °C): ca. 0.570 W/m K
Specific heat(at25°C):ca.3.40 kj/kg K
Surface tension: min.65mN/m

3. Classification/Hazards:

Water hazard class(Germany):1
R-phrases/S-phrases: Not applicable
Transport regulations:According to the ADR/RID transport regulations
AUS 32 is classified as a non-hazardous material.
Hazards: Posing no serious risk to humans, animals or the environment if properly handled, AUS32 is not hazardous according to the European product Classification guideline.However,direct contact with other chemical should be avoided,particularly with nitrates and nitrites.

Proprrties of AUS 32/ Adblue as per the revised ISO 22241 Standard

	Min	Max
Urea Content	31.8	33.2% by weight
Alkalinity as NH3		0.2% by weight
Biuret		0.3%
Insolubles		20mg/kg
Aldehyde		5mg/kg
Phosphate(PO4)		0.5mg/kg
Aluminium		0.5Mg/kg
Calcium		0.5mg/kg
Iron		0.5mg/kg
Copper		0.2mg/kg
Zinc		0.2mg/kg
Chromium		0.2mg/kg
Nickel		0.2mg/kg
Magnesium		0.5mg/kg
Sodium		0.5mg/kg
Potassium		0.5mg/kg
Density at 20°C	1087.0	1093.0kg/m3
Refractive index at 20°C	1.3814	1.3843

Important: Contents have to be analytically checked for non-dedicated containers Prior to filling.

Chief Mechanical Engineer,